



Institute for Materials Science

UNCLASSIFIED

2016 IMS Summer School: Los Alamos Science Capabilities



Terry Hawkins

Senior Fellow

Principle Associate Directorate Global Security

Maintaining Nuclear Stability through Times of Transition

Wednesday, July 20, 2016

2:00 PM

Physics Auditorium (TA-03 - Bldg 215 - Room 182)

The IMS Summer School focuses on Science Capabilities at Los Alamos National Laboratory and is designed to expose our visitors to the broad range of great science performed at the Lab. Through the course of **seven talks** and **four site visits**, students will have a unique opportunity to learn about LANL directly from our top scientists and participate in facility tours.

Abstract: The Cold War began in 1945 with the use of nuclear weapons to end World War II and officially ended in December 1989 with a joint declaration in Malta by President George H. W. Bush and Mikhail Gorbachev. In retrospect and accepting the conflicts in Korea and Vietnam, this 44-year period was remarkably stable. While many factors contributed to this stability, the contribution of nuclear weapons is undeniable. While a defense construct based on mutually assured destruction might not be Nirvana, history shows that it worked. Nowhere was this stability more obvious than in Europe. For over four decades, opposing forces were fixed in place by the prospect that any untoward movement to the east or to the west could precipitate the nuclear annihilation of nations on both sides of the Iron Curtain. How Western Europe could have been protected from Soviet aggression without any omnipresent American nuclear weapons is not obvious.

Bio: Houston T. "Terry" Hawkins is a Los Alamos National Laboratory (LANL) Senior Fellow and currently is the Chief Scientist, Principle Associate Directorate for Global Security (PADGS/LANL). He concurrently serves on the Board of Directors for the American Center for Democracy; as a Distinguished Research Fellow with the Institute of Physical Science, McLean, VA; and as technical advisor for the Marshall Institute for Interdisciplinary Research (MIIR), Huntington, WV. Terry previously was the Director of the LANL Department of Defense Programs in the Office of the Associate Director for Threat Reduction.

As an internationally recognized expert on modern terrorism particularly terrorism involving the potential use of weapons of mass destruction, Terry served on the Presidential Panel on National Infrastructure Protection. He has given invited lectures worldwide on this topic. He received the Chief Justice Earl Warren Medallion, the Aviation Week & Space Technology 2000 Laurel Award and the Valley Forge Freedoms Foundation Medallion.

Prior to coming to Los Alamos, Col. (RET) Hawkins had served 25 years in the US Air Force. As such he performed research on advanced ablative materials, lead a reconnaissance avionics unit in Southeast Asia, performed thousands of radiochemical analyses of nuclear debris, developed new nuclear forensic technologies and analytic methods, defined foreign nuclear activities and threats, and helped implement arms control verification methods. Terry was the leader of the Defense Intelligence Agency's Nuclear Energy Division where he also served on the Joint Atomic Energy Intelligence Committee and co-chaired the DOD Hard Target Kill Committee. He then served as the Special Assistant to the Secretary of Defense for Air Force Nuclear Matters. There he advised the Secretary of Defense on decisions pertaining to USAF nuclear weaponry, prepared the SecDef position paper on nuclear winter, and lead foreign assistance programs pertaining to hardening against nuclear effects and served as the Director of Threat Reduction/Arms Control, Defense Nuclear Agency.

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***2016 IMS Summer School is sponsored by the Institute for Materials Science (IMS)
and the National Security Education Center (NSEC)***